

Abstract of the Disclosure

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A memory card mounted in a general purpose ATA expansion memory location in a separate electronic device, such as a high-class digital camera, includes a data communication feature for transmitting the memory contents to a mobile station. Expansion cards containing memory which can be written and read are called Compact Flash, in accordance with the Flash EEPROM memory contained in small-sized cards. The data communication is performed on a short-range, low power radio frequency (LPRF) link. The memory card is also applicable for instance in a personal digital PDA notebook, where the input data can be stored in an expansion memory. The duplex feature of the expansion memory enables the data to be transmitted at a radio frequency to a mobile station. The data communication features of the wireless device are available for forwarding the data.

IN THE CLAIMS:

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Please replace the following claims as rewritten below:

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(Amended) A method for wireless data communication between a wireless device having means for short-range data communication, and an electronic device, the method comprising:

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mounting a data communication device having means for short-range wireless data communication in a general purpose expansion memory location of the electronic device;

activating a short-range radio frequency wireless data communication link between the wireless device and the data communication device; and

transmitting data between the data communication device and the wireless device.

2. (Amended) A method according to claim 1, wherein in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device and before the activation of the data communication link:

inputting data to the electronic device; and

processing the data in the data communication device installed in an expansion memory location.

3. (Amended) A method according to claim 2, wherein the data processing in the data communication device is made by instructions from the electronic device.

4. (Amended) A method according to claim 1, wherein the data communication between the data communication device and the wireless device is made over a low power radio frequency (LPRF) link.

5. (Amended) A method according to claim 1, wherein the data communication between the data communication device and the wireless device is made on the basis of instructions given by the wireless device.

6. (Amended) A method for wireless data communication between a wireless device having means for short-range data communication, and an electronic device, the method comprising:

mounting a data communication device having means for short-range wireless data communication in a general purpose expansion memory location of the electronic device;

activating a short-range wireless data communication link between the wireless device and the data communication device; and

transmitting data between the data communication device and the wireless device,

wherein the data communication between the data communication device and the wireless device is made automatically on the basis of the logic of the data communication device so that it is activated by the storage of data.

7. (Amended) A method for wireless data communication between a wireless device having means for short-range data communication, and an electronic device, the method comprising:

mounted a data communication device having means for short-range wireless data communication in a general purpose expansion memory location of the electronic device;

activating a short-range wireless data communication link between the wireless device and the data communication device; and

transmitting data between the data communication device and the wireless device,

wherein in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device and before the activation of the data communication link:

inputting data to the electronic device; and

processing the data in the data communication device installed in an expansion memory location, wherein the input data is a picture reflected as light through the objective of a camera.

8. (Amended) A communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising:

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a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device,

a short-range radio frequency wireless data communication unit and a short range radio frequency antenna for data communication; and

a memory for storing the communicated data.

9. (Amended) A data communication device according to claim 8, wherein the controller of the data communication device comprises:

a serial to parallel converter for converting parallel mode information of the memory into serial mode used by the short-range data communication unit, and correspondingly the serial mode information into the parallel mode;

a splitter for connecting a parallel mode write and read connection of the memory alternatively to the interface of the expansion memory location of the electronic device or to the serial to parallel converter for a short-range data communication link; and

a microcontroller for controlling the serial to parallel converter and the splitter.

10. (Amended) A data communication device according to claim 8, wherein the short-range data communication unit is an LPRF unit.

11. (Amended) A communication device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising:

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a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device;

a short-range LPRF wireless data communication unit and a short range radio frequency antenna for data communication;

a memory for storing the communicated data; and

means for supplying a busy signal to the electronic device when the memory is processed by the radio link, and a busy signal to the LPRF unit when the memory is processed by the electronic device.

12. (Amended) A communication device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, the data communication device comprising:

a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device;